

VSA Blower Removal and Installation Procedure

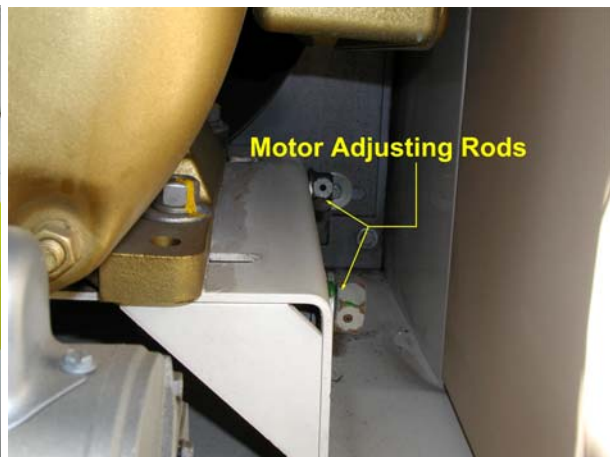
1. Blower Removal:

- 1.1 **WARNING!** *This area of the unit contains moving parts (belt and pulley system), and therefore poses a pinch hazard. Ensure power is disconnected from the EDOCS so personnel cannot start it unaware of work in process.*
- 1.2 Remove the VSA belt access panel (*See figure-1*).
- 1.3 Loosen the belts by loosening the adjustment rods on the VSA motor. Make sure that the same amount of turns is given to each rod (*See figure-2*).
- 1.4 Remove the belts and pulley from the blower.
- 1.5 Drain the oil out of the blower.
- 1.6 Remove the fill and drain lines from the blower.
- 1.7 Remove the M-200 motor from its platform by removing the 4 bolts that mount it.
- 1.8 Remove the silencer from the top of the blower and pull it out of the unit.
- 1.9 Remove the two bolts that mount the backside of the blower.
- 1.10 Remove the two bolts that mount the pulley side of the blower. (*Easiest access is through the VSA belt access panel. See figure-3.*)
- 1.11 Lift the blower straight up until it is free from the lip seal.
- 1.12 Once the blower is free, remove it from the unit through the access panel on the right side of the heat exchanger.
- 1.13 Install the inlet and outlet pipes on the new blower.
- 1.14 Grease the inlet pipe on the bottom of the blower.
- 1.15 Grease the lip seal that the pipe feeds into beneath the floor of the VSA.
- 1.16 **IMPORTANT!** *Caution must be taken not to damage the lip seal when installing the new blower. If the seal is damaged, the unit will not operate.*
- 1.17 Holding the blower perfectly straight, insert the inlet pipe of the blower into the lip seal and push straight down, slowly, until the pipe bottoms out.
- 1.18 Reinstall the mounting bolts onto the blower.
- 1.19 Reinstall the silencer onto the blower.
- 1.20 Reinstall the M-200 motor.
- 1.21 Reinstall the fill and drain lines on the blower.
- 1.22 Pour 7 oz. of oil into the blower.
- 1.23 Reinstall the pulley onto the blower
- 1.24 Reinstall the belts onto the blower and blower motor.
- 1.25 Tighten the belts by tightening the adjusting rods of the blower motor. Make sure to give each rod the same amount of turns. This will ensure that the pulleys stay aligned. (*See figure-2*). The belt tension should be 13 lbs. Per belt, with .27 inch deflection.
- 1.26 Check for loose debris, tools, or anything else that may cause damage when the unit starts.
- 1.27 Apply power and start the unit.
- 1.28 Check to make sure the unit reaches sufficient vacuum, and pressure specifications on PI-8
- 1.29 If no problems occur, operate the unit as normal.

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(Figure-1)



(Figure-2)